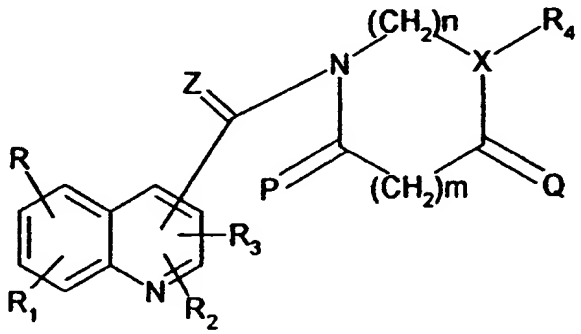
CLEAN VERSION OF WRITTEN CLAIM

1. (Amended) Quinoline derivatives according to the formula 1



formula 1

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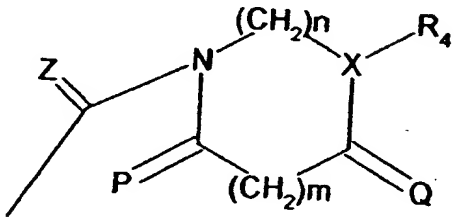
in which

R, R_1, R_2, R_3 can be attached to any of the quinoline carbon atoms C_2 to C_8, are identical or different and independently of one another denote hydrogen, straight-chain or branched C_{1-8} alkyl, C_{3-7} cycloalkyl, straight-chain or branched C_{1-8} alkylcarbonyl, straight-chain or branched C_{1-8} alkoxy, halogen, aryl-C_{1-8} alkoxy, nitro, amino, mono-C_{1-4} alkylamino, di-C_{1-4} alkylamino, C_{1-8} alkoxycarbonylamino, C_{1-6} alkoxycarbonylamino-C_{1-8} alkyl, cyano, straight-chain or branched cyano-(C_1-C_6)-alkyl, carboxyl, C_{1-8} alkoxycarbonyl, C_{1-4} alkyl which is substituted by one or more fluorine atoms, carboxy-C_{1-8} alkyl or C_{1-8} alkoxycarbonyl-C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, straight-chain or branched cyano-C_{1-6} alkyl, aryl, where the aryl radical can be unsubstituted or mono- or polysubstituted by identical or different substituents from the group consisting of halogen, straight-chain or branched C_{1-8} alkyl, C_{3-7} cycloalkyl, carboxyl, straight-chain or branched C_{1-8} alkoxycarbonyl, by trifluoromethyl, hydroxyl, straight-chain or branched C_{1-8} alkoxy, benzyloxy, nitro, amino, mono-C_{1-4} alkylamino, di-C_{1-4} alkylamino, cyano, straight-chain or branched cyano-C_{1-6} alkyl, where R and R_1 or R_2 and R_3 can form a fused aromatic 6-membered ring with the quinoline ring forming an acridine ring which for its part can be

substituted at any C atom ring position by the radicals R, R_1, R_2 and R_3 having the meanings mentioned above;

P and Q are each 2 hydrogen atoms;

Z is oxygen or sulfur, where the radical



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substituted on the quinoline heterocycle can be attached to C atoms C_{2-8} of the quinoline ring skeleton;

X is nitrogen or C-R_5, where R_5 is hydrogen or C_{1-6} alkyl;

n,m independently of one another is an integer between 0 and 3, with the proviso that when n = 0, X is a CR_5R_6 group wherein R_5 and R_6 independently of one another represent hydrogen or C_{1-6} alkyl, and that the nitrogen atom adjacent to the C=Z group is substituted by a hydrogen atom or a C_{1-6} alkyl group;

R_4 is a straight-chain or branched C_{1-20} alkyl radical which can be saturated or unsaturated, with one to three double and/or triple bonds, and which can be unsubstituted or can optionally be substituted at the same or different C atoms by one, two or more aryl, heteroaryl, halogen, cyano, C_{1-6} alkoxycarbonylamino, C_{1-6} alkoxy, amino, mono-C_{1-4} alkylamino or di-C_{1-4} alkylamino; a C_{6-14} aryl radical, C_{6-14} aryl-C_{1-4} alkyl radical, or a C_{2-10} heteroaryl or C_{2-10} heteroaryl-C_{1-4} alkyl radical which contains one or more heteroatoms selected from the group consisting of N, O and S, where the C_{1-4} alkyl radical can be unsubstituted or mono- or polysubstituted by identical or different substituents from the group consisting of C_{1-6} alkyl, halogen or oxo (=O) and where the C_{6-14} aryl or C_{2-10} heteroaryl radical can be unsubstituted or mono- or polysubstituted by identical or different substituents from the group consisting of straight-chain or branched

C_{1-8} alkyl, C_{3-7} cycloalkyl, halogen, cyano, C_{1-6} alkoxycarbonylamino, C_{1-6} alkoxy, carboxyl, C_{1-8} alkoxycarbonyl, straight-chain or branched C_{1-6} alkyl which is substituted by one or more fluorine atoms, hydroxyl, straight-chain or branched C_{1-8} alkoxy, where adjacent oxygen atoms can also be linked by C_{1-2} alkylene groups, benzyloxy, nitro, amino, mono-C_{1-4} alkylamino, di-C_{1-4} alkylamino, aryl, which can be unsubstituted or mono- or polysubstituted by identical or different substituents from the group consisting of straight-chain or branched C_{1-8} alkyl, C_{3-7} cycloalkyl, carboxyl, straight-chain or branched C_{1-8} alkoxycarbonyl, trifluoromethyl, hydroxyl, straight-chain or branched C_{1-8} alkoxy, benzyloxy, nitro, amino, mono-C_{1-4} alkylamino, di-C_{1-4} alkylamino, cyano, straight-chain or branched cyano-C_{1-6} alkyl;

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and their structural isomers and stereoisomers and their pharmaceutically acceptable salts.